

Reference: 3RA1220-1DC24-0AP0

LOAD FEEDER FUSELESS REVERSING  
DUTY, AC 400 V, SIZE S0, 2.2...3.2 A, AC  
230V 50 HZ, SCREW CONNECTION, TYPE  
OF COORDIN. 2, IQ = 50 KA ON 40 MM  
BUSBAR ADAPTER

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| General technical data:   |                       |
|---|-----------------------|
| product brand name  | SIRIUS                |
| Product designation   | non-fused load feeder |
| Design of the product   | reversing starter     |
| Size of load feeder   | S0                    |
| Protection class IP on the front  | IP20                  |
| Degree of pollution   | 3                     |
| Insulation voltage rated value  | V 690                 |
| Installation altitude at height above sea level maximum                             | m 2 000               |
| Ambient temperature   |                       |
| during storage  | °C -55 ... +80        |
| during transport  | °C 70 ... -20         |
| during operation  | °C -20 ... +70        |
| Shock resistance  | 12.5g                 |
| Surge voltage resistance rated value  | kV 6                  |
| Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 | Q                     |
| Equipment marking acc. to DIN EN 61346-2  | Q                     |
| Type of assignment  | 2                     |
| Mechanical service life (switching cycles) of contactor typical                     | 10 000 000            |

|  |     |                   |
|--|-----|-------------------|
| Manufacturer's article number  |     |                   |
| of the supplied circuit-breakers   |     | 3RV10 21-1DA10    |
| of the supplied contactor  |     | 3RT10 24-1AP00    |
| of the supplied RS assembly kit  |     | 3RA19 23-1C       |
| of the supplied link module  |     | 3RA19 21-1AA00    |
| Design of the switching contact  |     | electromechanical |
| Type of the motor protection   |     | bimetal           |
| Adjustable pick-up value current of the current-dependent overload release | A   | 2.2 ... 3.2       |
| Communication/ Protocol:   |     |                   |
| Product function Bus communication   |     | No                |
| Protocol is supported  |     |                   |
| AS-interface protocol  |     | No                |
| PROFIBUS DP protocol   |     | No                |
| PROFINET protocol  |     | No                |
| Main circuit:  |     |                   |
| Number of poles for main current circuit                                   |     | 3                 |
| Operating voltage at AC-3 rated value maximum                              | V   | 690               |
| Operating current at AC-3 at 400 V rated value                             | A   | 2.7               |
| Operating power at AC-3 at 400 V rated value                               | kW  | 1.1               |
| No-load switching frequency  | 1/s | 15                |
| Control circuit/ Control:  |     |                   |
| Type of voltage of the control supply voltage                              |     | AC                |
| Control supply voltage frequency 1   |     |                   |
| rated value  | Hz  | 50                |
| Control supply voltage 1   |     |                   |
| at AC  |     |                   |
| — at 50 Hz rated value   | V   | 230               |
| Auxiliary circuit:   |     |                   |
| Product extension Auxiliary switch   |     | Yes               |
| Number of NC contacts for auxiliary contacts                               |     | 0                 |
| Number of NO contacts for auxiliary contacts                               |     | 0                 |
| Number of CO contacts for auxiliary contacts                               |     | 0                 |
| Inputs/ Outputs:   |     |                   |
| Number of digital inputs   |     | 0                 |
| Short-circuit:   |     |                   |
| Product function Short circuit protection                                  |     | Yes               |
| Design of short-circuit protection   |     | circuit-breakers  |

|   |                                |  |                   |  |
|---|--------------------------------|--|-------------------|--|
| Maximum short-circuit current breaking capacity (I <sub>cu</sub> ) at 400 V rated value | kA                             | 50   |                   |  |
| Inputs/ Outputs:  |                                |  |                   |  |
| Mounting position   |                                | horizontal   |                   |  |
| Mounting type   |                                | for snapping onto 40 mm busbar systems   |                   |  |
| Width   | mm                             | 100  |                   |  |
| Height  | mm                             | 208  |                   |  |
| Depth   | mm                             | 148  |                   |  |
| Busbar center-to-center spacing   | mm                             | 40   |                   |  |
| Required spacing  |                                |  |                   |  |
| with side-by-side mounting at the side  | mm                             | 0  |                   |  |
| for grounded parts  |                                |  |                   |  |
| — forwards  | mm                             | 10   |                   |  |
| — Backwards   | mm                             | 0  |                   |  |
| — upwards   | mm                             | 30   |                   |  |
| — at the side   | mm                             | 9  |                   |  |
| for live parts  |                                |  |                   |  |
| — forwards  | mm                             | 10   |                   |  |
| — Backwards   | mm                             | 9  |                   |  |
| — downwards   | mm                             | 0  |                   |  |
| — at the side   | mm                             | 30   |                   |  |
| Connections/ Terminals:   |                                |  |                   |  |
| Type of electrical connection for main current circuit                                  |                                | screw-type terminals   |                   |  |
| Type of connectable conductor cross-sections  |                                |  |                   |  |
| for main contacts   |                                |  |                   |  |
| — solid   |                                | 1 ... 6 mm <sup>2</sup> , 2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> ) |                   |  |
| — stranded  |                                | 1 ... 6 mm <sup>2</sup> , 2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> ) |                   |  |
| — finely stranded with core end processing  |                                | 1 ... 6 mm <sup>2</sup> , 2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> ) |                   |  |
| at AWG conductors for main contacts   |                                | 2x (14 ... 10)   |                   |  |
| Certificate of suitability  |                                | UL / CSA / CCC / GL / LRS / BV / DNV / PRS   |                   |  |
| Certificates/ approvals:  |                                |  |                   |  |
| General Product Approval  | For use in hazardous locations | Declaration of Conformity  | Shipping Approval |  |
| Shipping Approval   |                                |  | other             |  |
|   |                                |  | Umweltbestätigung |  |
| other   |                                |  |                   |  |
| Bestätigungen   |                                |  |                   |  |

